

HISTORIC AMERICAN ENGINEERING RECORD

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ROCKY FLATS PLANT, URANIUM ROLLING AND  
FORMING OPERATIONS

HAER No. CO-83-R

(Building Flats Plant, Building 883)

Located in the southeastern section of the Plant, in the southeast quadrant of the intersection of Central Avenue and Eighth Street.

Golden Vicinity

Jefferson County

Colorado

Photographs CO-83-R-1 through CO-83-R-19 were taken by various site photography contractors, dates indicated in parentheses.

- CO-83-R-1      VIEW OF BUILDING 883 EXTERIOR, LOOKING SOUTHEAST.  
VENTILATION EQUIPMENT IS VISIBLE. (11/27/56)
  
- CO-83-R-2      VIEW OF INTERIOR, EAST SIDE (SIDE A) OF BUILDING 883.  
INSTALLATION OF ROLLING MILLS AND MOLTEN SALT BATH  
EQUIPMENT FOR DEPLETED URANIUM FABRICATION. THE  
CRANE NEAR THE CEILING WAS USED TO INSTALL THE  
EQUIPMENT. BOXES ON THE FLOOR CONTAINED EQUIPMENT TO  
BE INSTALLED. (1/23/57)
  
- CO-83-R-3      VIEW OF INTERIOR, EAST SIDE (SIDE A) OF BUILDING 883.  
INSTALLATION OF EQUIPMENT FOR THE MOLTEN SALT BATHS  
AND ROLLING MILLS PROCESSES. (4/25/57)
  
- CO-83-R-4      DETAIL VIEW (SIDE A) OF HANDMADE STEEL BOX ASSOCIATED  
WITH THE DEPLETED URANIUM ALLOY DEVELOPMENT AND  
COMPONENT FABRICATION PROCESS. THE BOX WAS USED TO  
TRANSFER HEATED BLOCKS OF METAL (SHOWN IN THE OPENED  
DOOR) FROM THE MOLTEN SALT BATH TO THE ROLLER LINES.  
(4/28/62)
  
- CO-83-R-5      VIEW OF BERYLLIUM PROCESSING AREA, ROLLING MILL.  
BERYLLIUM FORMING BEGAN IN SIDE A OF THE BUILDING IN  
1962. (11/5/73)
  
- CO-83-R-6      DETAIL VIEW OF SPIN FORM FURNACE FOR STAINLESS STEEL  
FABRICATION. STAINLESS STEEL WAS MACHINED IN SIDE A OF  
THE BUILDING, BEGINNING IN 1957. (4/24/78)

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- CO-83-R-7 VIEW OF HYDRAULIC HAMMER STAMPING PRESS ON SIDE A OF BUILDING 883. THIS TYPE OF PRESS WAS USED FOR BOTH STAINLESS STEEL AND FOR DEPLETED URANIUM. (7/2/86)
- CO-83-R-8 VIEW OF THE SWITCHGEAR AND ELECTRICAL SUPPLY ROOM IN BETWEEN SIDES A AND B OF BUILDING 883. EQUIPMENT WITHIN THE BUILDING REQUIRED AN EXTENSIVE AMOUNT OF POWER. THE ELECTRICAL SUPPLY ROOM IS ESSENTIALLY AN ELECTRICAL SUBSTATION. (1/23/57)
- CO-83-R-9 VIEW OF MOLTEN SALT BATH EQUIPMENT AND ROLLER PRESSES BEING INSTALLED ON THE WEST SIDE (SIDE B) OF BUILDING 883. SIDE B OF BUILDING 883 WAS USED TO PROCESS ENRICHED URANIUM FROM 1957-66. (1/23/57)
- CO-83-R-10 VIEW OF THE ADDITION TO BUILDING 883, REFERRED TO AS SIDE C. ARMOR PLATE MADE WITH DEPLETED URANIUM WAS HEATED IN A MOLTEN SALT BATH, THEN PROCESSED THROUGH THE ROLLING MILL TO FORM LARGE SHEETS. (9/16/85)
- CO-83-R-11 VIEW OF THE MANIPULATOR AND THE PARTS HEATING FURNACE. THE PARTS OR METALS WERE HEATED PRIOR TO BEING PRESSED. THE MANIPULATOR ARM WAS USED TO INSERT AND REMOVE PARTS OR METALS FROM THE FURNACE. (2/9/79)
- CO-83-R-12 VIEW OF THE MANIPULATOR AND THE PARTS HEATING FURNACE. THE METALS WERE HEATED PRIOR TO BEING PRESSED. THE ARM IS DRAPED WITH FIRE RESISTANT MATERIAL. (2/9/79)
- CO-83-R-13 VIEW OF THE MOLTEN SALT BATHS USED TO UNIFORMLY AND QUICKLY HEAT METALS PRIOR TO WORKING (ROLLING). (9/16/85)
- CO-83-R-14 VIEW OF METAL ROLLING OPERATION. THE METALS ARE BEING PREPARED TO BE ROLLED INTO SHEETS OF SPECIFIC THICKNESS. COMPONENT PARTS WERE FABRICATED FROM THE METAL SHEETS. (11/82)

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- CO-83-R-16 VIEW OF A ROLLING MILL THAT WAS USED TO CREATE A METAL SHEET (SHOWN). (4/16/57)
- CO-83-R-17 VIEW OF FORMING EQUIPMENT. DISCS CUT FROM METAL SHEETS WERE FORMED INTO SHAPES. (7/2/86)
- CO-83-R-18 VIEW OF ROLLER LEVELER USED TO STRAIGHTEN AND FLATTEN METAL SHEETS. (7/2/86)
- CO-83-R-19 VIEW OF THE BAKE-OUT FURNACE, WHERE PARTS WERE HEATED UNDER A VACUUM TO HEAT TREAT OR TO BAKE OUT ANY IMPURITIES. (9/19/72)
- CO-83-R-20 VIEW OF THE BASEMENT FLOOR PLAN. THE BASEMENT AREA INCLUDES A UTILITY ROOM, PROCESS WASTE STORAGE AND MAINTENANCE AREAS, AND THE ENTRANCE TO AN UNDERGROUND TUNNEL LEADING TO BUILDING 881. THE ORIGINAL DRAWING HAS BEEN ARCHIVED ON MICROFILM. THE DRAWING WAS REPRODUCED AT THE BEST QUALITY POSSIBLE. LETTERS AND NUMBERS IN THE CIRCLES INDICATE FOOTER AND/OR COLUMN LOCATIONS.
- CO-83-R-21 VIEW OF THE FIRST FLOOR PLAN. THE FIRST FLOOR WAS USED FOR DEPLETED AND ENRICHED URANIUM FABRICATION. THE ORIGINAL DRAWING HAS BEEN ARCHIVED ON MICROFILM. THE DRAWING WAS REPRODUCED AT THE BEST QUALITY POSSIBLE. LETTERS AND NUMBERS IN THE CIRCLES INDICATE FOOTER AND/OR COLUMN LOCATIONS.
- CO-83-R-22 VIEW OF THE SECOND FLOOR PLAN. THE SECOND FLOOR CONTAINS THE AIR PLENUM AND SOME OFFICE SPACE. THE ORIGINAL DRAWING HAS BEEN ARCHIVED ON MICROFILM. THE DRAWING WAS REPRODUCED AT THE BEST QUALITY POSSIBLE. LETTERS AND NUMBERS IN THE CIRCLES INDICATE FOOTER AND/OR COLUMN LOCATIONS.

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CO-83-R-23      VIEW OF SECTION DRAWINGS. THE SECTION LINES CUT THE BUILDING EAST-WEST. THE ORIGINAL DRAWING HAS BEEN ARCHIVED ON MICROFILM. THE DRAWING WAS REPRODUCED AT THE BEST QUALITY POSSIBLE. LETTERS AND NUMBERS IN THE CIRCLES INDICATE FOOTER AND/OR COLUMN LOCATIONS.